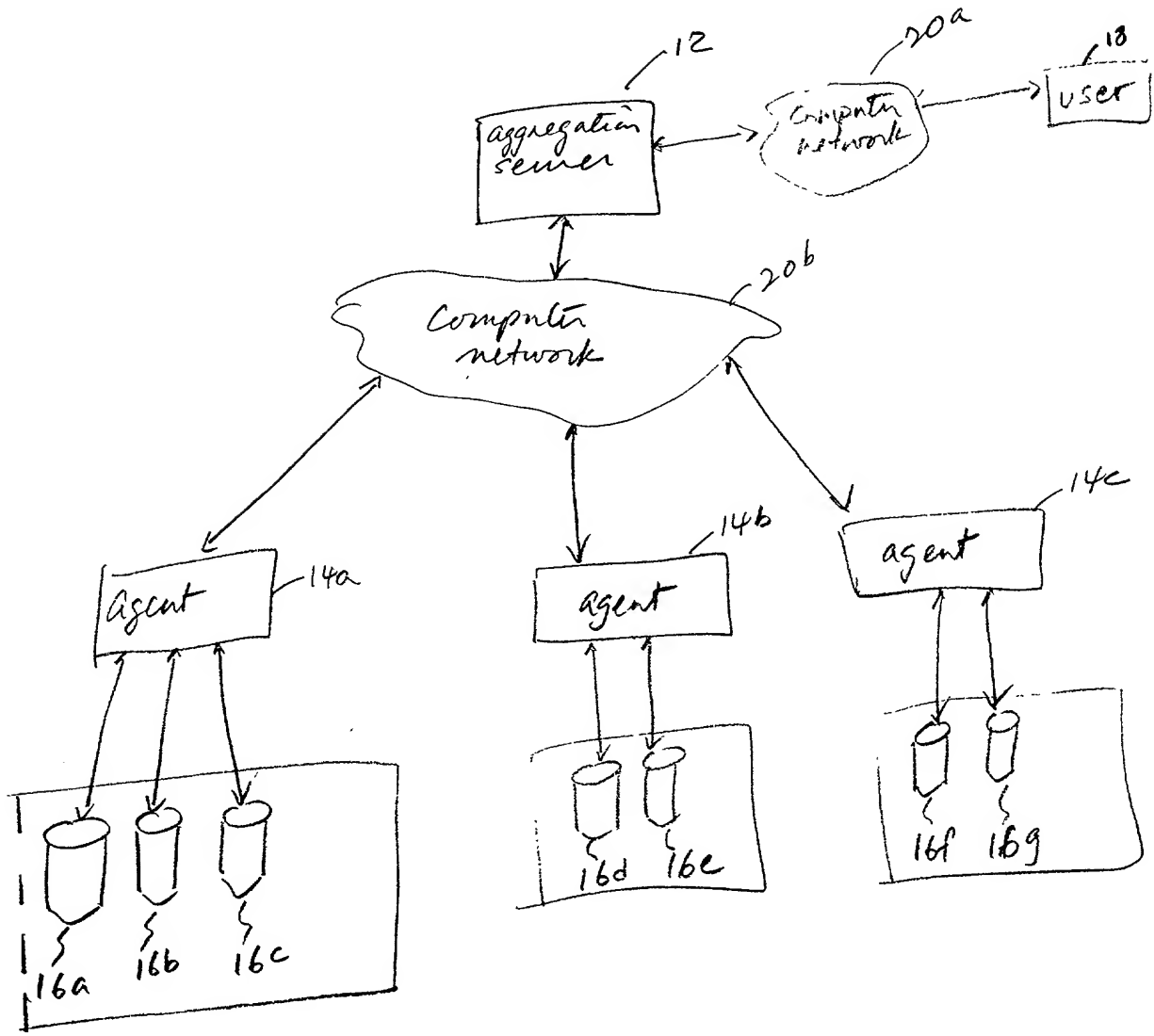


Fig. 1

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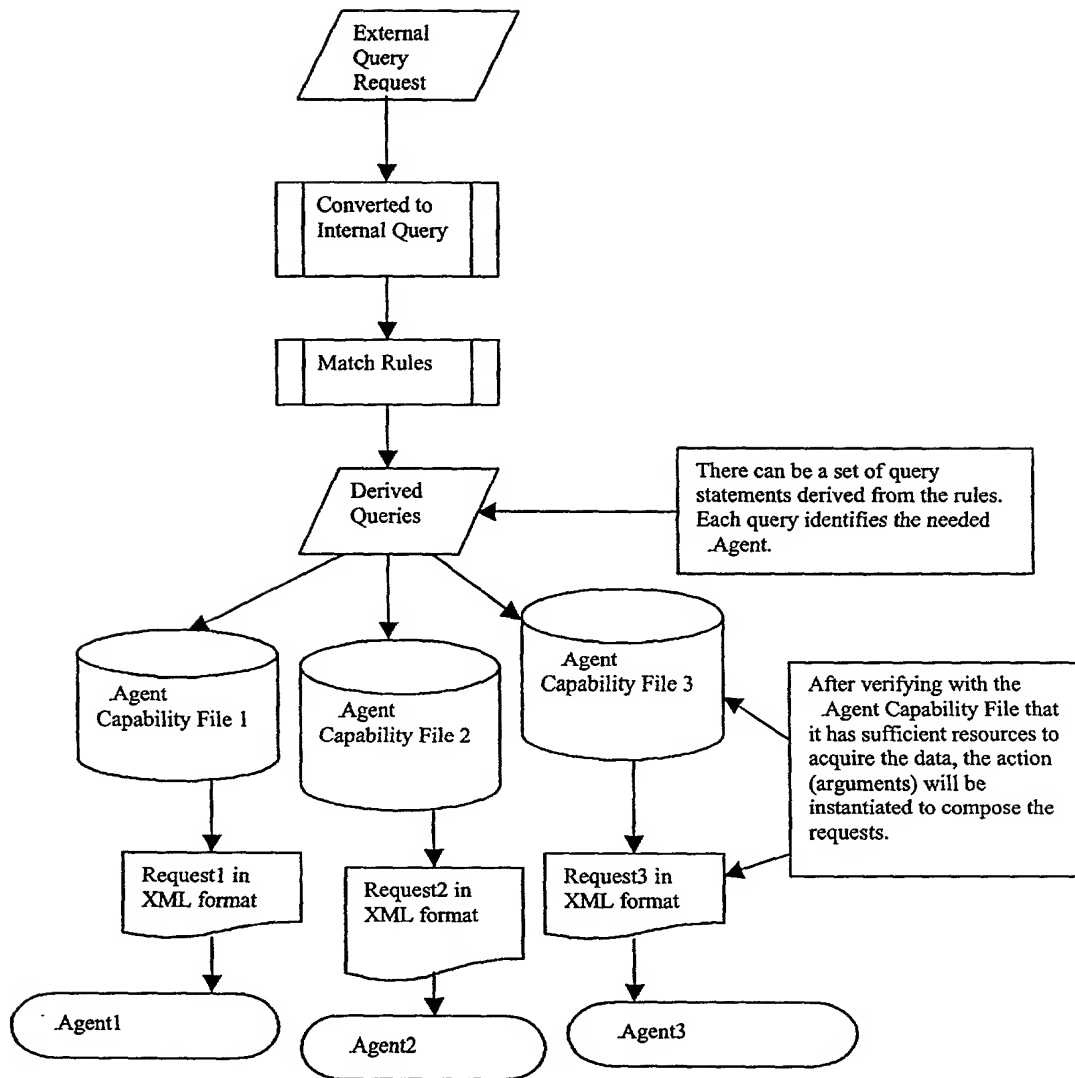


Fig.2

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```
<?xml version="1.0" encoding="ISO-8859-1" standalone="yes"?>
<tquery>
<session> 1234 </session>
<begin> 0 </begin>
<howmany> 10 </howmany>
<query>
<schema> FGByChannel </schema>
<arg0> ROH </arg0>
</query>
</tquery>
```

Fig. 3

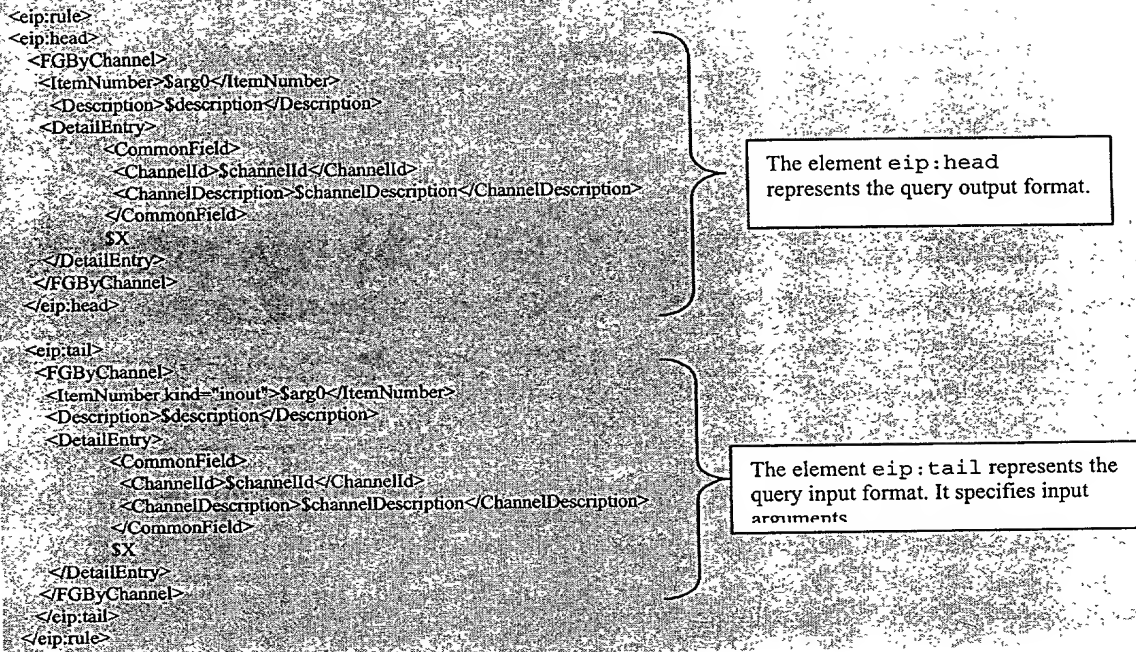


Fig 4

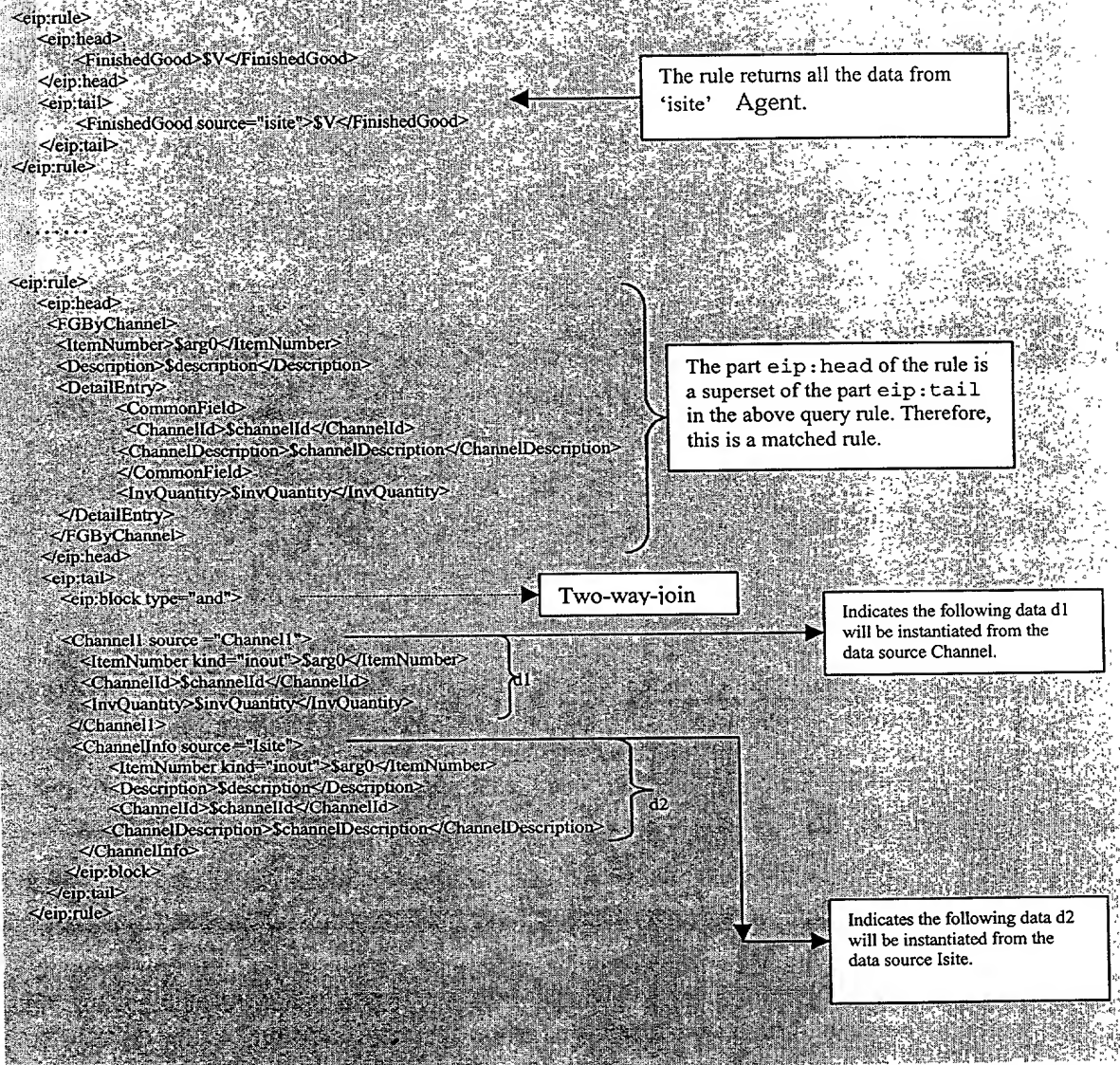


Fig. 5

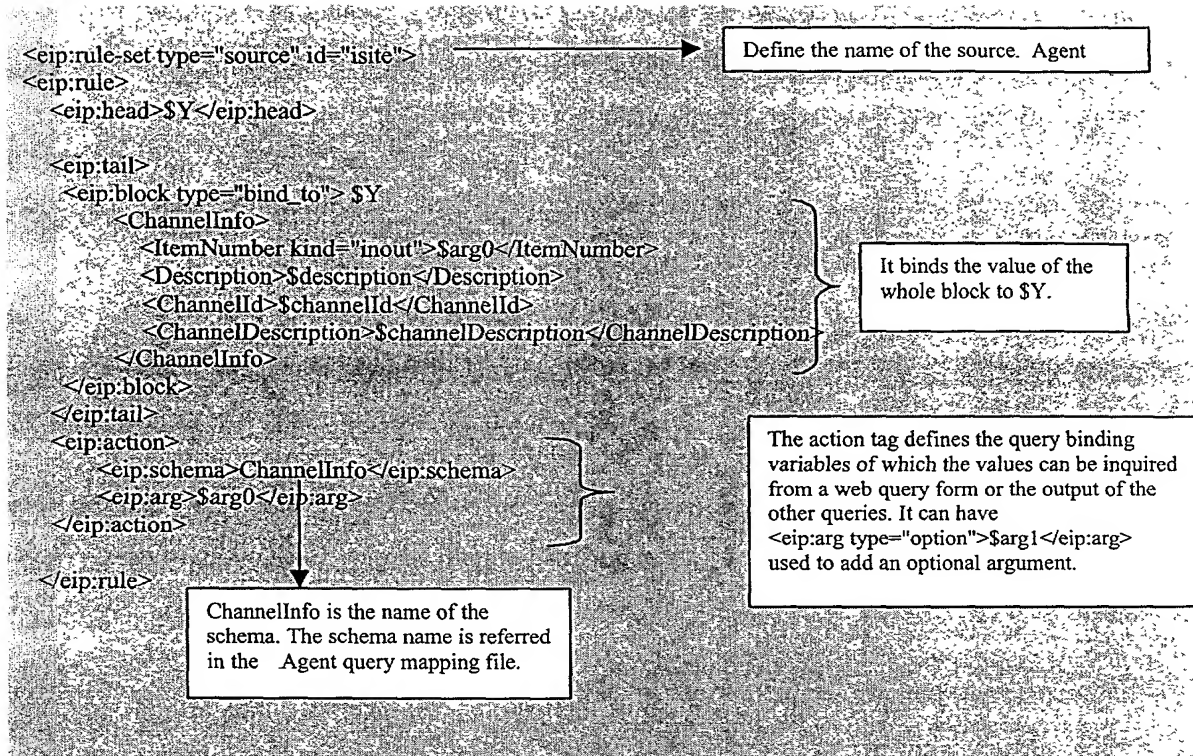


Fig. 6

```
<elementType id="ChannelInfo">
```

```
<mapsTo type="c:ChannelInfo" />
```

```
<read>
```

```
<database name="demo" usname="test" uspswd="test" driver="ODBC" drivertype="2" />
```

```
<query>select MATERIAL_ID,MATERIAL_INFO,CHANNEL_ID,CHANNEL_INFO from
master.channel_info where MATERIAL_ID = '$0'
```

```
</query>
```

```
</read>
```

```
<attribute type="#MATERIAL_ID">
```

```
<mapsTo type="c:ItemNumber">
```

```
</mapsTo>
```

```
<implies type="c:ChannelInfo" id="ChannelInfoRoot"/>
```

```
</attribute>
```

```
<attribute type="#MATERIAL_INFO">
```

```
<mapsTo type="c:Description"></mapsTo>
```

```
<implies type="#ChannelInfoRoot"/>
```

```
</attribute>
```

```
<attribute type="#CHANNEL_ID">
```

```
<mapsTo type="c:ChannelId"></mapsTo>
```

```
<implies type="#ChannelInfoRoot"/>
```

```
</attribute>
```

```
<attribute type="#CHANNEL_INFO">
```

```
<mapsTo type="c:ChannelDescription"></mapsTo>
```

```
<implies type="#ChannelInfoRoot"/>
```

```
</attribute>
```

```
</elementType>
```

Database Connection String

Query Definition

The "#MATERIAL\_ID" is a column identifier preceded by a "#". It is mapped to the following name.

c:ItemNumber is an internal conceptual name defined in the Agent capability file.

<implies type> tag indicates an XML tree data structure and the value is the name of the parent node. #ChannelInfoRoot is previously defined and allocated. It can then be referred as #ChannelInfoRoot.

Fig. 7a

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```
<elementType id="GetDemandForMaterial">
  <mapsTo type="c:MaterialDemand"/>
  <read>
    <sap client="100" usname="user1" usrpasswd="123" language="EN" hostname="11.2.3.4" systemno="00" />
    <query>
      <rfcModuleName>ZRFC_GETDEMAND</rfcModuleName>
      <importParams>
        <P_MATNR>$0</P_MATNR>
        <P_WERKS>$1</P_WERKS>
      </importParams>
      <tableParams>ITABDEM</tableParams>
    </query>
  </read>
  <attribute type="#DAT00">
    <string/>
    <mapsTo type="c:RequirementsDate">
      <implies type="c:MaterialDemand" id="MDRoot"/>
      <implies type="c:Demand"/>
    </mapsTo>
    </attribute>
    <attribute type="#CERDM">
      <string/>
      <mapsTo type="c:CertainDemand">
        <implies type="#MDRoot"/>
      </mapsTo>
    </attribute>
    <attribute type="#FORDM">
      <string/>
      <mapsTo type="c:ForecastDemand">
        <implies type="#MDRoot"/>
      </mapsTo>
    </attribute>
  </elementType>

```

- SAP Connection String
- Query definition (the parameters passed into Sap Java Connector)
- The data field returned from SAP. It is mapped to the following name.

Fig. 7b